## REMARKS

Claims 1-9 remain in the application and have been amended hereby.

As will be noted from the Declaration, Applicants are citizens and residents of Japan and this application originated there.

Accordingly, the amendments made to the specification are provided to place the application in idiomatic English, and the claims are amended to place them in better condition for examination.

An early and favorable examination on the merits is earnestly solicited.

Respectfully submitted,
COOPER & DUNHAM LLP
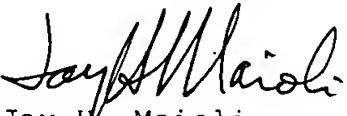
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VERSION WITH MARKINGS TO SHOW CHANGES MADE
IN THE ABSTRACT OF THE DISCLOSURE
Please amend the Abstract by rewriting same to read as

follows.

A wireless transmission apparatus and a wireless

transmission method capable of performing simple

transmission control [are provided. As], in which an

information transmission flow control method, instead of

reporting vacant-buffer information from a receiving

destination apparatus, an information transmission-source

apparatus permits the transmission of a packet up to a

predetermined transmission window size from the packet for

which acknowledgement has not been received from an

information receiving destination, and the transmission of

a packet exceeding that transmission window size is

inhibited. As a result, if the packet is within that

transmission window size, even if the information receiving

destination has not confirmed the reception of the [ACK]

acknowledgement (ACK) information, the packet is

transmitted unconditionally. Furthermore, a transmission

pointer and an ACK receiving pointer are provided, and even

if acknowledgement is not received, control is performed

using [that] the transmission window size in which

transmission is possible.

IN THE CLAIMS

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Please amend claims 1-9 by rewriting same to read as follows.

--1. (Amended) A wireless transmission method for transmitting packets of asynchronous information to a wireless transmission apparatus of an information transmission destination from a wireless transmission apparatus of an information transmission source in a wireless network formed using a plurality of transmission apparatuses which are communication stations, said wireless transmission method comprising the steps of:

in said wireless transmission apparatus of the information transmission source,

dividing asynchronous information to be transmitted from a high order layer into packets in sequence at a predetermined fragment size when the asynchronous information is received;

adding a sequence number [for] to each of said packets and buffering the packets in a transmission buffer; and

transmitting said [packetized information] packets to said wireless transmission apparatus of the information transmission destination under [the control of] a predetermined access control.

--2. (Amended) [A] The wireless transmission method according to Claim 1, further comprising the steps of:

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writing the [most] a recent sequence number buffered

in said transmission buffer in a buffer pointer; and

adding a sequence number starting from [the] a value

of said buffer pointer when asynchronous information is

next [packetized] divided into packets.

--3. (Amended) [A] The wireless transmission method

according to Claim 1, further comprising:

writing [said buffered] a most recent sequence number

buffered in said transmission buffer in [the] a buffer

pointer; and

storing packets up to a value indicated by a total

sequence-number space for the packet for which

acknowledgement information is received from said wireless

transmission apparatus of the information transmission

destination minus one, when asynchronous information is

next [packetized] divided into packets.

--4. (Amended) A wireless transmission method for

transmitting packets of asynchronous information [to a

wireless transmission apparatus of an information

transmission destination] from a wireless transmission

apparatus of an information transmission source to a

wireless transmission apparatus of an information

transmission destination, returning acknowledgement

information of [the] received packets to said wireless

transmission apparatus of the information transmission source [from said wireless transmission apparatus of the information transmission destination] after the packets of asynchronous information [is] are transmitted, and terminating the transmission of the packets of asynchronous information to said wireless transmission apparatus of the information transmission destination from said wireless transmission apparatus of the information transmission source in a wireless network formed using a plurality of transmission apparatuses which are communication stations, said wireless transmission method comprising the step of:

in said wireless transmission apparatus of the information transmission source,

waiting for acknowledgement information to be received from said wireless transmission apparatus of the information transmission destination until a predetermined time elapses after the packets of asynchronous information [is] are transmitted from said wireless transmission apparatus of the information transmission source.

--5. (Amended) A wireless transmission method for transmitting packets of asynchronous information to a wireless transmission apparatus of an information transmission destination from a wireless transmission apparatus of an information transmission source in a

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wireless network formed using a plurality of transmission apparatuses which are communication stations, said wireless transmission method comprising the steps of:

in said wireless transmission apparatus of the information transmission source,

providing a predetermined transmission window size; and

transmitting a packet [if] when said packet is within said transmission window size even [if the] when reception of acknowledgement information from said wireless transmission apparatus of the information transmission destination is not confirmed,

said steps performing transmission control during [information] transmission of the packets of asynchronous information.

--6. (Amended) [A] The wireless transmission method according to Claim 5, wherein said transmission control during [information transmission] the transmission of packets of asynchronous information is used for selection-repeat-resend-type automatic resend request control in which [information on] a packet of asynchronous information which [could be] is received from said wireless transmission apparatus of the information transmission destination is transmitted as acknowledgement [information]

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to said wireless transmission apparatus of the information

transmission source, and only a packet which has not been

received is selected and retransmitted from said wireless

transmission apparatus of the information transmission

source.

--7. (Amended) A wireless transmission method using

selection-repeat-resend-type automatic resend request

control in which [information on] a packet of asynchronous

information which [could be] is received from said wireless

transmission apparatus of the information transmission

destination is transmitted as acknowledgement [information]

to said wireless transmission apparatus of the information

transmission source, and only a packet which has not been

received is selected and retransmitted from said wireless

transmission apparatus of the information transmission

source in a wireless network formed using a plurality of

transmission apparatuses which are communication stations,

said wireless transmission apparatus comprising:

in said wireless transmission apparatus of the

information transmission source,

providing a predetermined transmission window size;

using a low-order bit-map-space area which is two

times as large as said transmission window size, and a

high-order-bit identification pointer for indicating the

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position in the total sequence-number space to which said low-order bit-map-space area corresponds; and

virtually performing transmission control in the total sequence-number space by repeatedly reusing said low-order bit-map-space area and said high-order-bit identification pointer,

said steps performing transmission control during information transmission.

--8. (Amended) A wireless transmission apparatus for performing transmission of asynchronous information under the control of predetermined access control in a wireless network formed using a plurality of transmission apparatuses which are communication stations, said wireless transmission apparatus comprising:

packetizing means for [packetizing] dividing asynchronous information into packets in predetermined information units on said wireless network;

buffering means for buffering said packets in a transmission buffer;

sequence number assigning means for assigning a sequence number for each of said packets;

storage means for storing the most recent sequence number buffered in said buffering means as a buffer pointer; and

sequence number adding means for reading the value of said buffer pointer and adding a sequence number when asynchronous information is next buffered.

--9. (Amended) A wireless transmission apparatus for transmitting information in a wireless network formed using a plurality of transmission apparatuses which are communication stations using selection-repeat-resend-type automatic resend request control in which information on a packet which [could be] is received by a wireless transmission apparatus of an information transmission destination is transmitted as acknowledgement [information] to a wireless transmission apparatus of an information transmission source, and only [the] a packet which has not been received is selected and retransmitted from said wireless transmission apparatus of the information transmission source, said wireless transmission apparatus comprising:

in said wireless transmission apparatus of the information transmission source,

window size setting means for providing a predetermined transmission window size;

low-order bit-map-space area setting means for setting an area which is two times as large as said window size; and

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high-order-bit identification pointer setting means for indicating the position in the total sequence-number space to which said low-order bit-map-space area corresponds,

wherein transmission control in the bit-map spaces of the total sequence-number space is virtually performed by repeatedly reusing said low-order bit-map-space area and said high-order-bit identification pointer.

IN THE BACKGROUND OF THE INVENTION

Please amend the Background of the Invention by rewriting page 3, lines 3-10 to read as follows.

This method has been considered for use in combination with a selection-repeat-resend (SR)-type automatic resend request [(ARG)] (ARQ) method, in which information on packets which were successfully received by the information receiving destination is transmitted as acknowledgement information to the information transmission source and in which only the packet which has not been received is selected and retransmitted from the information transmission source.